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Declass Review, NIMA/DoD

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NOTICE

This is the thirteenth in a series of updated and supplementary items to be inserted by page number in NPIC/R-218/66, Southeast Asia Activity Report, POL Facilities, North Vietnam. The effective date of each page is printed in the upper right-hand corner under the NPIC report number and in the tables of contents.

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however, individual pages which can be classified CONFIDENTIAL or CONFIDENTIAL

Starting with this group of items, a number will be added to the report number; i.e., NPIC/R-218/66-13. The number thirteen indicates this is the thirteenth issuance of items for this report.

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INTRODUCTION

This report has been prepared in cooperation with CIA and DIA to include CIA/ORR and the DIA Production Center validation of published estimated storage in categories A and B. It is designed to present a comprehensive view of the POL storage and handling facilities in North Vietnam. It is not necessarily allinclusive, inasmuch as the source of information is limited primarily to photography. As new storage areas are identified, or as changes occur in previously reported areas, periodic supplements will be disseminated, keeping the North Vietnam POL storage data base as current as possible.

Storage areas in this report are divided into four categories, each presented in a separate section.

> Category A. Permanent Storage and Handling Areas. These areas consist of conventional, large, aboveground, cylindrical tank and related handling facilities and will occasionally include some underground storage.

Category B. Dispersed Storage Areas. These areas consist of semi-permanent, widely-dispersed storage, usually consisting of 7-MT-type, 12-MT-type, or 25-MT-type tanks placed in underground bunkers.

Category C. Drum Storage Areas. These areas consist of non-permanent, aboveground, open storage of US 55-gallon or US 30-gallon-type drums.

Category D. Miscellaneous. This category includes POL storage, transporta-

tion, and other related miscellaneous facilities not covered in other categories. Transshipment and handling facilities not located at regular storage areas are contained in this category.

A table of contents is included for each category and a small-scale plot map is included for each of the first three categories. In addition, a large-scale map and photo is provided for each item.

Annex I, prepared by the DIA Production Center, is divided into sections XA and XB. corresponding to Categories A and B. These sections contain detailed target analyses of the POL storage and handling facilities. Included in the descriptions is information on the significance and capacities of the facilities, target and defense environments, probable impact upon North Vietnam if destroyed, length of time required for restoration, and results of air strikes.

For purposes of this report, a large POL tank refers to a 25-MT tank, a standard POL tank refers to a 12-MT tank, and a small POL tank refers to a 7-MT tank. POL drums refer to standard US 55-gallon-type drums, unless otherwise stated. Reference to tank alone in the text describing category B facilities is used when referring to 12-MT tanks.

The type of photography used to provide information for this report generally precludes detailed mensuration; therefore, capacities are necessarily provided as estimated capacities.

All installations reported are indexed by geographic coordinates in ascending order at the end of the report.

In accordance with standard practices of the petroleum industry, capacities in all categories of this report are expressed in terms of metric tons at the rate of one metric ton for each cubic meter of volume. A cubic meter of water (about 265 US gallons) weighs one metric ton. A cubic meter of petroleum generally weighs less than one metric ton, the exact weight depending upon the specific gravity of the particular type of petroleum. A specific gravity of 0.84 may be used to estimate the weight of a cubic meter of average petroleum (see Annex II); thus, one cubic meter of average petroleum would weigh 0.84 metric tons. Capacities shown in this report are gross. Because of "deadwood" inside tanks, (e.g. the space occupied by pipes, manholes, and internal structural supports, and space left to preclude spillage at or near the tops of tanks), the actual and safe capacity may be about 95 percent of gross capacity.

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BACKGROUND

The economy of North Vietnam is predominantly agricultural, with only a limited amount of industry. Reports from the limited surveys conducted by the Ministry of Industry, North Vietnam, have made no reference to discoveries of crude oil, or natural gas, and the geological prospects for such discoveries are not favorable. Small deposits of oil shale are located in several of anthracite coal areas; however, North Vietnam has no facilities for the processing of this resource. There are no refineries for processing natural crude oil or natural gas; therefore, all petroleum products must be imported. The petroleum facilities of North Vietnam are now limited to those required to receive, store, and distribute imported refined products.

There are no known pipelines in North Vietnam. Petroleum products received in the port of Hai Phong by tanker are distributed by tank car, tank truck, truck, river craft, and coastal vessel to other storage areas. Products are probably then distributed to consumers in drums or other packaged form. Consumption restraints on petroleum products are therefore, directly related to the amount which can be stored in any given area.

Essentially all POL storage prior to 1964 was located in permanent storage areas (Category A) such as Hai Phong, Ha Noi (Thanh Am) and Vinh. These three areas accounted for 70 percent of North Vietnam bulk storage capacity prior to 1964. The first two U.S. strikes against POL storage facilities were directed

against the Vinh Petroleum Products Storage in August 1964 and February 1965, respectively. the first photo-Shortly thereafter, in graphic evidence became available depicting the North Vietnamese commencing their initial POL dispersal program with the storing of cylindrical tanks in earth-covered bunkers. All of the dispersed sites (Category B) have been, or probably will be, concealed by one or more methods. Concealment methods observed to date include locating the site in an existing graveyard (a technique causing it to appear to be a burial ground), applying disruptive paint on the tanks, utilizing existing terrain features such as tree lines to conceal tanks, and planting over buried or semi-buried tanks to make them blend in with surrounding field patterns. Also North Vietnam began utilizing numerous open storage areas for 55-gallon drums (Category C).

In 1964, North Vietnam had approximately ten POL storage areas; however, by at least 75 POL storage areas had been identified. This number does not include numerous small drum storage areas.

It is anticipated that continued and expanded efforts by the United States to destroy known POL storage areas will force North Vietnam to disperse and conceal POL stores to an even greater extent; thus, possibly making it more difficult to locate and strike these dispersed areas, but also further complicating the problem of POL distribution for North Vietnam.

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1	Viet Tri Petroleum Products Storage	A1,2 (Dec 66)
2	Phuc Yen Airfield POL Storage Area	Λ3,4 (Original)
3	Ha Gia Petroleum Products Storage SSW UG	A5,6 (Mar 67) (C)
4	Ha Noi Petroleum Products Storage Thanh Am	A7,8 (Sep 66)
5	Nguyen Khe Petroleum Storage	A9,10 (Nov 66)
6	Bac Giang Petroleum Products Storage	A11,12 (Sep 66) (C)
7	Nam Dinh Petroleum Products Storage	A13,14 (Original) (C)
8	Hai Phong Petroleum Products Storage	A15,16 (Original) (C)
9	Duong Nham Petroleum Products Storage	A17,18 (Nov 66)
10	Do Son Petroleum Products Storage	A19,20 (May 67) (C)
11	Phu Van POL Storage	A21,22 (Dec 66)
12	Vinh Petroleum Products Storage	A23,24 (Nov 66)
13	Phu Qui Petroleum Products Storage	A25,26 (Original)
14	Hanoi/Gia Lam Airfield POL Storage Area	A27,28 (Original)

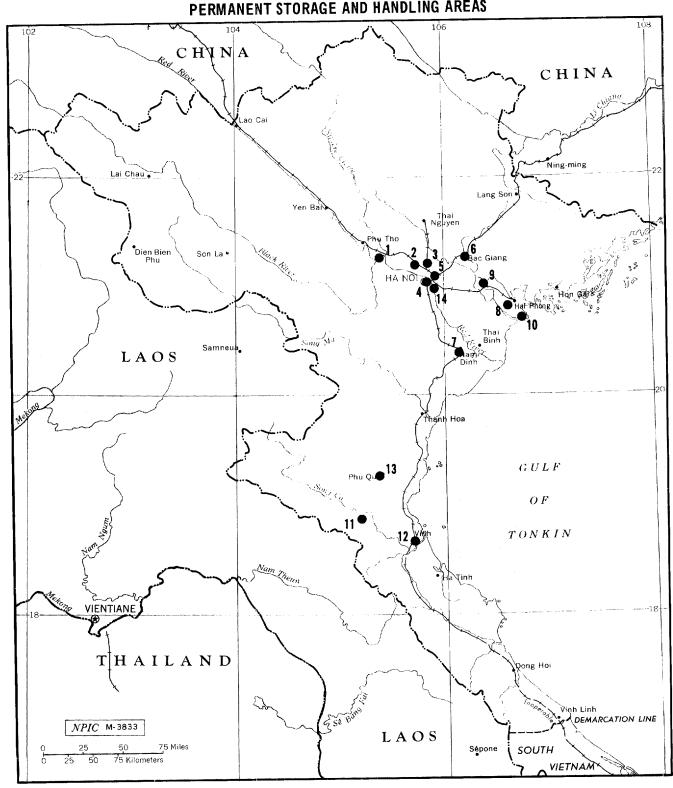
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2	Van Lung Petroleum Products Storage UG	B3,4 (Original) (C)
3	Van Lung Petroleum Products Storage West UG	B5,6 (Original) (C)
4	Hoang Mai POL Storage Area	B7,8 (Original)
5	Ha Noi Petroleum Products Thi Cam	B9,10 (Original)
6	Bai Thuong Petroleum Products Storage UC Southeast	B11,12 (Aug 67) (C)
7	Son La Petroleum Products Storage	B13,14 (Original) (C)
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13	Ha Noi Petroleum Products Storage UG Thanh Liet (Area 1)	B25,26 (May 68) (S)
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18	Ha Noi Petroleum Products Storage Duc Noi (Area 1)	B35,36 (Original)
19	Ha Noi Petroleum Products Storage Duc Noi (Area 2)	B37,38 (Dec 66)
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23	Cu Van Petroleum Products Storage East UG	B45,46 (Dec 66)
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25	Dao Quan Petroleum Products Storage West	B49,50 (Jan 68) (C)
26	Nam Dinh Petroleum Products Storage PUG	B51,52 (Original) (C)
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28	Phuc Yen Airfield POL Storage Area I	B55,56 (Nov 66)
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34	Phu Dong POL Storage Area	B67,68 (Original) (C)
35	Thuan Le POL Storage Area	B69,70 (Nov 66) (C)
36	Phu Loc Petroleum Products Storage	B71,72 (Sep 66) (C)
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42	Dong Chau Petroleum Products Storage	B83, 84 (Aug 67) (C)
43	Kep Ha Petroleum Products Storage	B85,86 (Original) (C)
44	Tien Hoi Petroleum Products Storage	B87,88 (Original)
45	Dong Mai Petroleum Products Storage	B89,90 (Original) (C)
46	Xom Lang POL Storage	B91,92 (Original) (C)
47	Van Hoa POL Storage	B93,94 (Original) (C)
48	Phu Lo Petroleum Products Storage NNE Underground	B95,96 (Jan 68) (C)
49	Jaune Island POL Storage	B97,98 (Original) (C)
50	Co Nhue Vien Petroleum Products Storage	B99,100 (Nov 67) (C)
51	Quang Suoi Petroleum Products Storage	B101,102 (Aug 67) (C)
52	Trung Phu Petroleum Products Storage	B103,104 (Sep 66) (C)
53	Gia Hoa Petroleum Products Storage PUG	B105,106 (Sep 66) (C)
54	Bai Chay Petroleum Products Storage	B107,108 (Sep 66) (C)
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66	Thanh Hoa Petroleum Products Storage	B131,132 (Nov 66) (C)
67	Tram Du Petroleum Products Storage	B133,134 (Nov 66)
68	Luc Nong Petroleum Products Storage	B135,136 (Nov 66) (C)
69	Thai Nguyen Petroleum Products Storage	B137,138 (Nov 66) (C)
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78	Vinh Petroleum Products Storage North UC		B155,156 (Dec 66) (C)
79	Mach Trang Petroleum Products Storage		B157,158 (Dec 66) (C)
80	Tram Bac Petroleum Products Storage		B159,160 (Dec 66) (C)
81	Nam Lo Petroleum Products Storage		B161,162 (Dec 66) (C)
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85	Hoa Loan Petroleum Products Storage		B169,170 (Jan 67) (C)
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90	Vinh Petroleum Products Storage PUG North No 2		B179,180 (Mar 67) (C)
91	Xom Thap Petroleum Products Storage		B181,182 (Mar 67) (C)
92	Vinh Petroleum Products Storage North No 3		B183,184 (Mar 67) (C)
93	Cu Hap Petroleum Products Storage		B185,186 (Mar 67) (C)
94	Xuan Mai Petroleum Products Storage		B187,188 (May 67) (C)
95	Dong Xuan Petroleum Products Storage		B189,190 (May 67) (C)
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102	Quynh Hoang Petroleum Products Storage		B203, 204 (Nov 67)
103	Lang Son Petroleum Products Storage SE		B205,206 (Nov 67) (C)
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111	Na Pia Petroleum Products Storage	B221,222 (Nov 67) (S)	
112	Lang Coc Petroleum Products Storage	B223,224 (Jan 68) (C)	
113	Binh Phu Petroleum Products Storage North	B225,226 (Jan 68) (C)	
114	Kieu Yen Thuong Petroleum Products Storage	B227,228 (Jan 68) (C)	
115	Hien Luong Petroleum Products Storage	B229,230 (Jan 68)	
116	Hoan Ha Petroleum Products Storage	B231,232 (Jan 68) (S)	
117	Ban Yen Nhan Petroleum Products Storage	B233,234 (Jan 58) (S)	
118	Quynh Do Petroleum Products Storage	B235 ,2 36 (Jan 68) (S)	
119	Tien Huong Petroleum Products Storage	B237,238 (Jan 68) (C)	
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123	Thanh Hoa Petroleum Products Storage South I	B245,246 (Jun 68) (C)	
123	Ha Xuan Mai Petroleum Products Storage	B247,248 (Jun 68) (C)	_
125	Xom Lam Petroleum Products Storage	B249,250 (Jun 68) (C)	
126	Mai Hien Petroleum Products Storage	B251,252 (Jun 68)	
120	Quynh Do Petroleum Products Storage (Area 2)	B253,254 (Jun 68)	25X1C
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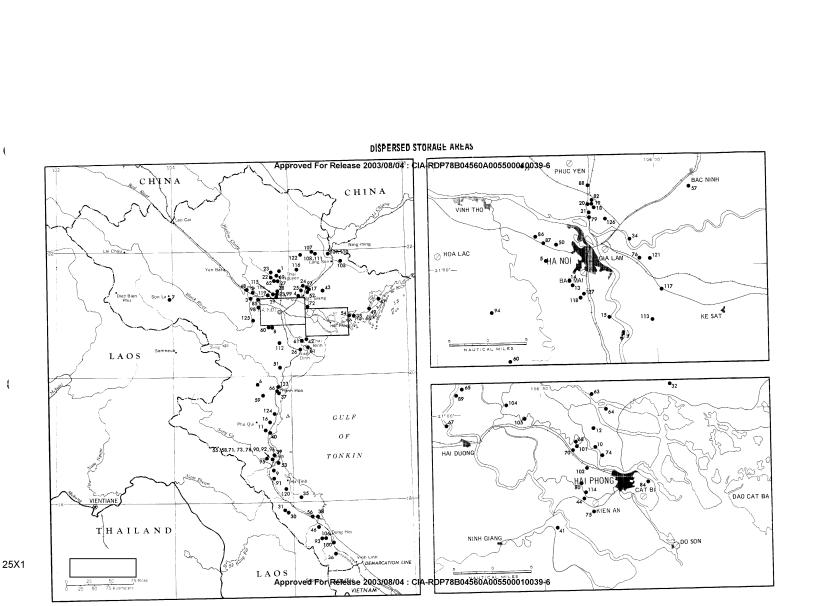
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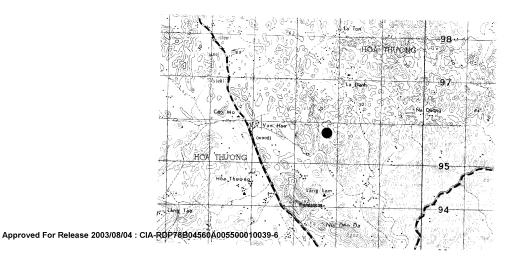
NAME: LA DANH PETROLEUM PRODUCTS STORAGE PUG

LOCATION: 4.1 NM NORTH OF THAI NGUYEN AND 0.8 NM EAST OF VAN HAO

DESCRIPTION: STORAGE AREA CONSISTS OF 2 ADJACENT SITES. EAST AREA CONTAINS APPROXIMATELY 116 BUNKERED TANKS, 6 UNBURIED MEDIUM TANKS, 15 EXCAVATIONS, AND APPROXIMATELY 4,000 DRUMS DISPERSED UNDER TREES. WEST AREA, 0.3 NM WEST, CONTAINS AT LEAST 475 DRUMS IN OPEN STORAGE AND IN 9 EXCAVATIONS AND 9 ADDITIONAL EXCAVATIONS. BOMB CRATERS ARE OBSERVED IN EACH AREA. ESTIMATED CAPACITY: TANK 1,464 MT DRUM 895 MT

MAP REFERENCES: AMS SERIES L701, SHEET 6175-I, 1ST ED, OCT 63 (U)
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

PHOTO REFERENCE: 25X1D



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205750N 1054850E WJ846182 GEOGRAPHIC COORDINATES UTM COORDINATES 25X1A HA NOI PETROLEUM PRODUCTS STORAGE UG THANH LIET (AREA 1) NAME: LOCATION: 0.3 NM WNW OF THANH LIET AND 4 NM SSW OF HA NOI. REVEALS SITE NEAR COMPLETION AND PHOTOGRAPHY DESCRIPTION: CONTAINING 30 POL TANKS BURIED IN PAIRS, 13 TANKS ABOVEGROUND, 2 EXCAVATIONS, REVEALS COMPLETED SITE CONTAINING AND 1 POL TRUCK. PHOTOGRAPHY 32 SMALL TANKS BURIED IN PAIRS. ESTIMATED CAPACITY: TANK 224 MT MAP REFERENCES: AMS SERIES L701, SHEET 6173 I, 3D ED, MAR 61 (U) AMS SERIES JOG(A) 1501, SHEET NF 48-15, 1ST ED, JUN 65 (U) PHOTO REFERENCE: 25X1D ~ - Cem : 1/3 Ngoc Truc

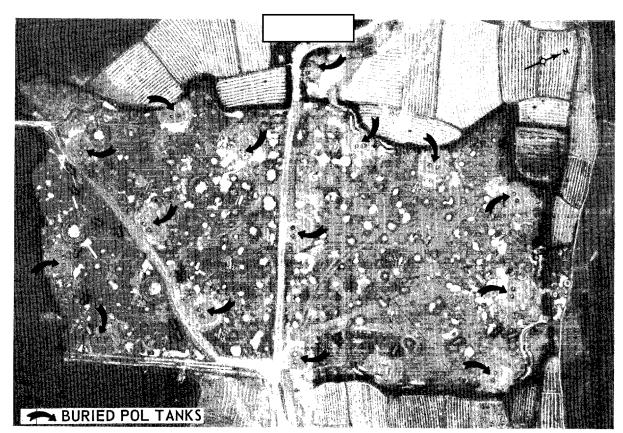
Phong Khoang Dinh Cong Thyong Khuống Di Dinh Cong Ha Cemetery Cau Thon! Giap I Triev Khúc Kim∏Lu-∜ Dinh Cong Ha Van Quan Trang Yen Phuc Yen Xa Phap g Cau Giap Ha Tri 71**8**1 Bang Liet n Phu Da\\$i Mau Luor Ha Thon X Tan Liet Tuu Liet Huu Le Yen Nguu Cem To Thanh Oal 16 Huu Tháih Odi Dong?

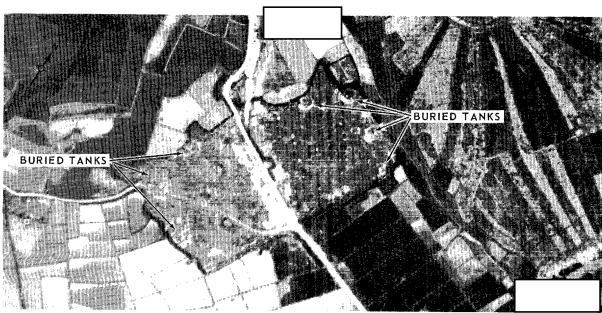
25X1

25X1C Approved For Release 2003/05/06/PCIA-RDP78B04560A005500010039218/66-13

HA NOI PETROLEUM PRODUCTS STORAGE UG THANH LIET (AREA 1)

WJ846182 UTM COORDINATES 205750N 1054850E GEOGRAPHIC COORDINATES





25X1C B26
Approved For Release 2003/\$\frac{8}{6}\RETIA-RDP78B04560A005500010039-6

25X1

25X1

25X1

Approved For Release 2003/08/08 F. COLATION: 0.7 NM NW OF THANH LIET AND 3.6 NM SSV OF HA NOI.

DESCRIPTION: PHOTOGRAPHY REVEALS SITE UNDER CONSTRUCTION CONTAINING 2 BURIED TANKS, 8 UNBURIED TANKS, AND 24 EXCAVATIONS. PHOTOGRAPHY REVEALS COMPLETED SITE CONTAINING 104 SMALL TANKS BURIED IN

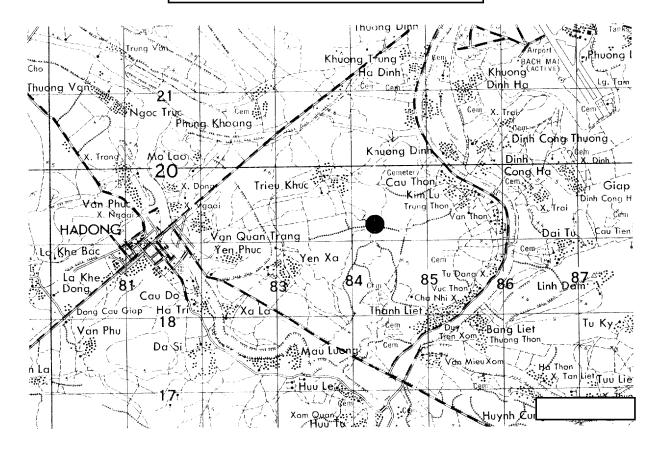
ESTIMATED CAPACITY: TANK 728 MT

PAIRS.

MAP REFERENCES: AMS SERIES L701, SHEET 6173 I, 3D ED, MAR 61 (U)

AMS SERIES JOG(A) 1501, SHEET NF 48-15, 1ST ED, JUN 65 (U)

PHOTO REFERENCE: 25X1D



25X1

25X1C 327 Approved For Release 2003/08/0**%**E/RAF-RDP78B04560A005500010039-6

Approved For Release 2003/08/045:EGR FRDP78B04560A005500010059 G/R-218/66-13

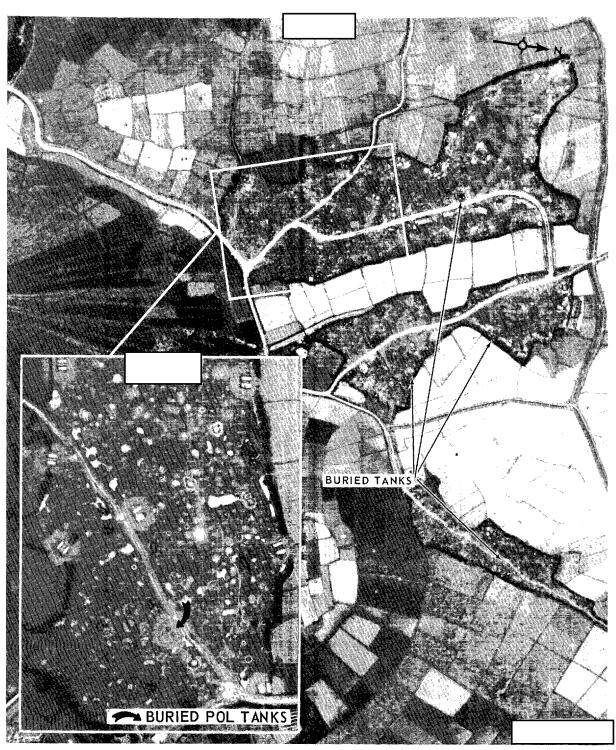
HA NOI PETROLEUM PRODUCTS STORAGE UG THANH LIET (AREA 2)

WJ843191
UTM COORDINATES

205820N 1054840E

GEOGRAPHIC COORDINATES

25X1

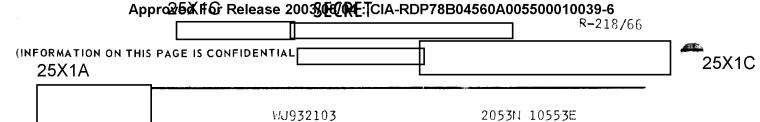


25X1

25X1

Approved For Release 2003/08/04c:CIA-RPP78B04560A005500010039-6





NAME: BANG SO PETROLEUM PRODUCTS STORAGE PUG

LOCATION: 0.3 NM EAST OF BANG SO AND 9 NM SSE OF HA NOI ON WEST BANK OF

WU932103

UTM COORDINATES

THE RED RIVER

DESCRIPTION: STORAGE SITE CONTAINS 6 LARGE POL TANKS, 7 PROBABLY BURIED

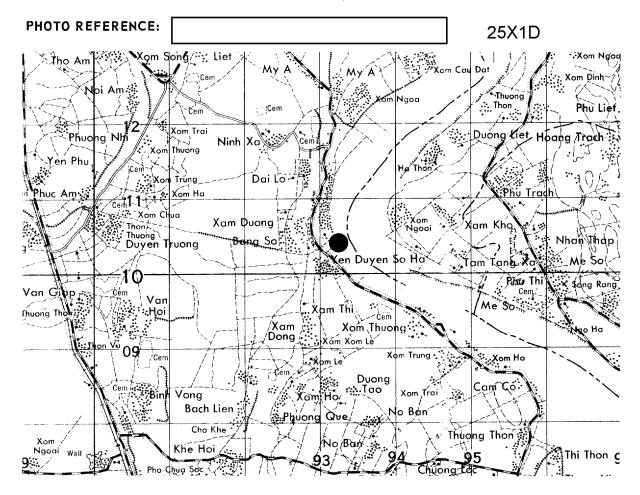
POL TANKS, AND 17 EXCAVATIONS.

ESTIMATED CAPACITY: TANK 234 MT

MAP REFERENCES: AMS SERIES L701, SHEET 6173 I, 3D ED, MAR 61 (U)

AMS SERIES JOG(G) 1501, SHEET NF 48-15, 1ST ED, JUN 65 (U)

GEOGRAPHIC COORDINATES



25X1

25X1

25X1C SECRET NPIC/R-218/66 Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010039-65 January 1968

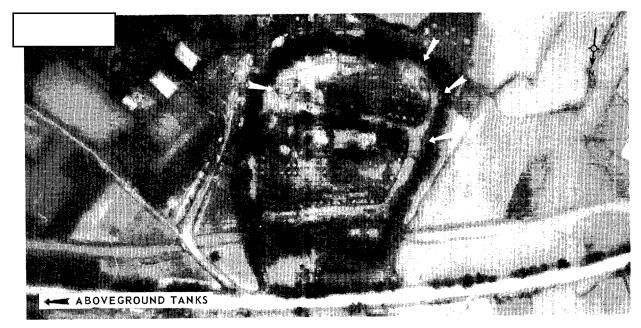
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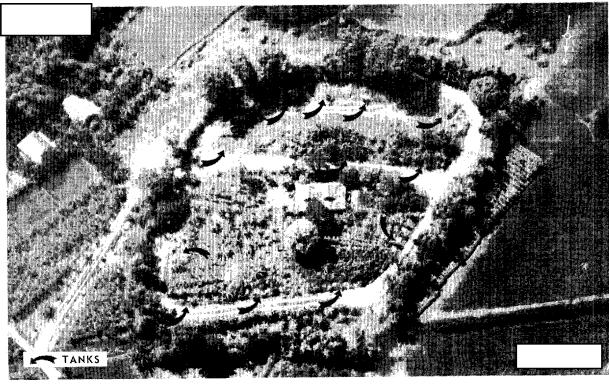
75X1

DUONG XA PETROLEUM PRODUCTS STORAGE

25X1C

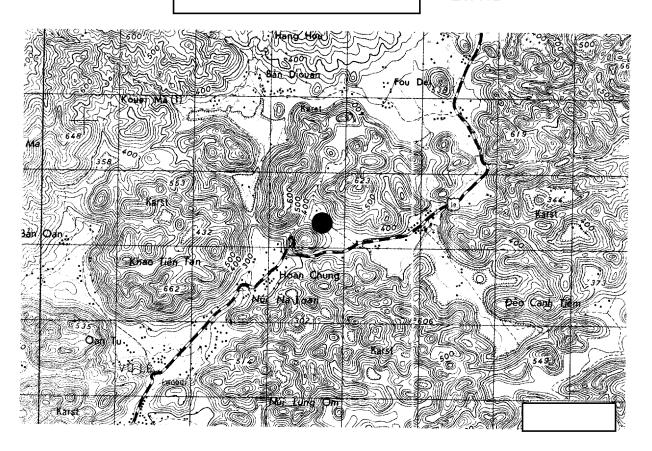
XJ023248 UTM COORDINATES 210128N 1055904E GEOGRAPHIC COORDINATES





25X1

25X1@pproved For Release 2003/08/08-TCIA-RDP78B04560A005500070039268/66-13 14 JUNE 1968 25X1 25X1A XK237134 214920N 1061150E UTM COORDINATES GEOGRAPHIC COORDINATES NAME: HOAN CHUNG PETROLEUM PRODUCTS STORAGE LOCATION: 0.7 NM NNE OF HOAN CHUNG ON THE NORTH SIDE OF ROUTE 1B. DESCRIPTION: STORAGE AREA APPEARED TO BE NEARING COMPLETION WHEN FIRST OBSERVED ON PHOTOGRAPHY AND CONTAINED 74 PARTIALLY UNDERGROUND 25X1 TANKS BUNKERED IN GROUPS OF 2 TO 4 TANKS EACH, AND 4 EMPTY EXCAVATIONS. PHOTOGRAPHY ____ REVEALED PREVIOUSLY OBSERVED SPOILAGE TO BE OVER-25X1 GROWN WITH VEGETATION. ESTIMATED CAPACITY: TANK 888 MT MAP REFERENCES: AMS SERIES L7014, SHEET 6252 IV, 1ST ED, 1965 (U) AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)



25X1D

25X1

25X1C

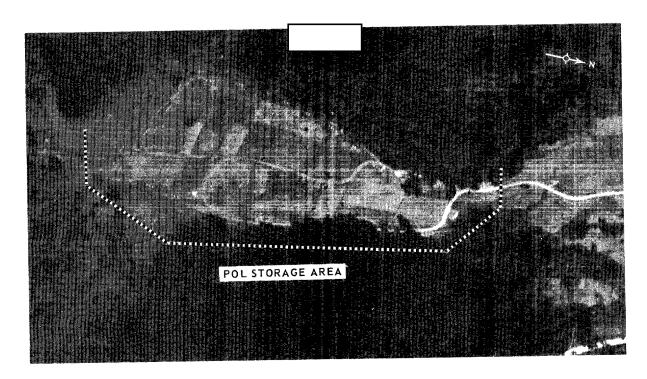
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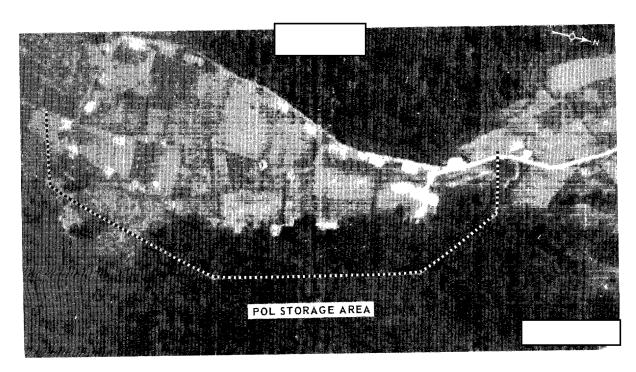
8243

HOAN CHUNG PETROLEUM PRODUCTS STORAGE

XK237134
UTM COORDINATES

214920N 1061150E GEOGRAPHIC COORDINATES





25X1

25X1

25X1

B244

25X1C Approved For Release 2003/08/04\$ CHA-RDP78B04560A005500010039-6

25Approved For Release 2003/08/64-NEIA-RDP78B04560A0055000 10039-5 JUNE 1968

25X1A

WG806907 194843N 1054614E UTM COORDINATES GEOGRAPHIC COORDINATES

THANH HOA PETROLEUM PRODUCTS STORAGE SOUTH 1 NAME:

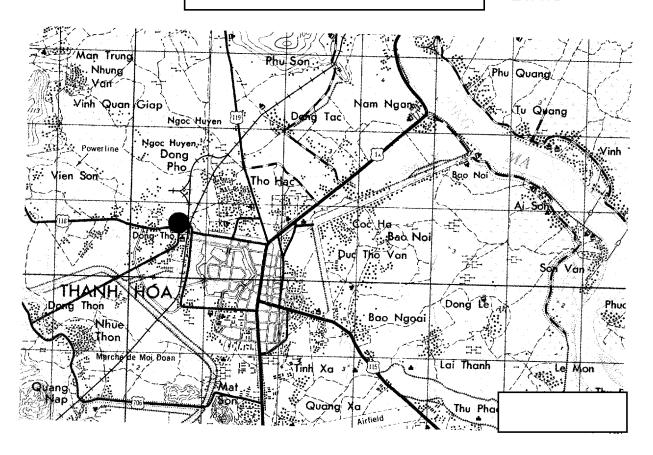
LOCATION: ON NW EDGE OF THANH HOA, ADJACENT TO A RAIL SPUR.

DESCRIPTION: STORAGE AREA CONTAINS 17 SEPARATELY BUNKERED TANKS.

ESTIMATED CAPACITY: TANK 204 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6148-I, 1ST ED, 1965 (U)
AMS SERIES JOG(G) 15J1, SHEET NE 48-3, 1ST ED, JUN 65 (U)

PHOTO REFERENCE: 25X1D



B245

25X1

25X1C

Approved For Release 2003 686 T CIA-RDP78B04560A005500010039-6

THANH HOA PETROLEUM PRODUCTS STORAGE SOUTH 1

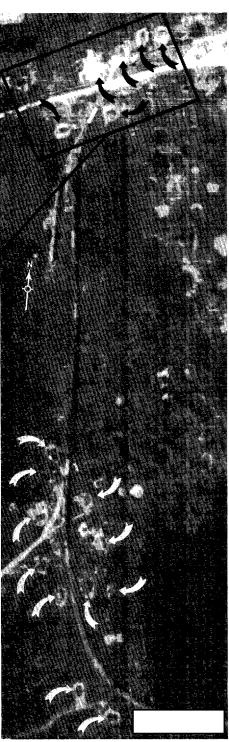
WG806907

194843N 1054614E

UTM COORDINATES

GEOGRAPHIC COORDINATES





B246

Approved For Release 2003/08/04 FtD 4 RDP 48 B04560A005500010039 BIC/R-218/66-13

WF800342

182350N 1054530E

BE NUMBER

UTM COORDINATES

GEOGRAPHIC COORDINATES

NAME: HA XUAN MAI PETROLEUM PRODUCTS STORAGE

LOCATION: 0.4 NM SOUTH OF HA XUAN MAI.

DESCRIPTION: SITE CONTAINS 9 BUNKERED SMALL TANKS, 2 EMPTY EXCAVATIONS,

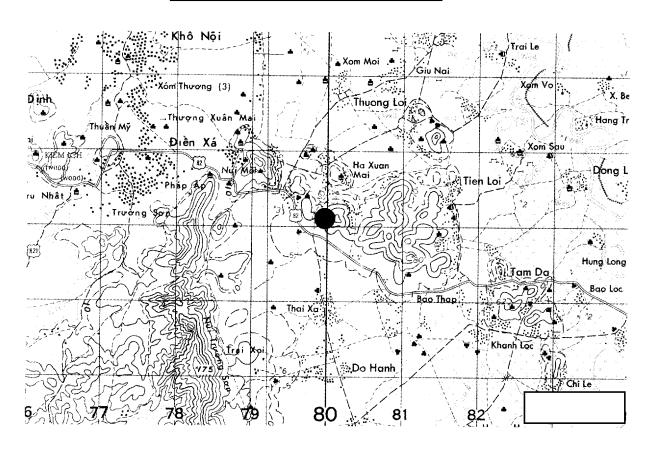
AND 141 DRUMS IN SCATTERED TRENCHES.

ESTIMATED CAPACITY: TANK 63 MT DRUM 31 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6145-1, 1ST ED, 1965 (U)

AMS SERIES JOG(G) 1501, SHEET NE 48-7, 2D ED, JUN 65 (U)

PHOTO REFERENCE: 25X1D



HA XUAN MAI PETROLEUM PRODUCTS STORAGE

WF800342 UTM COORDINATES

182350N 1054530E GEOGRAPHIC COORDINATES



Approved For Release 2004/PROTA CIA-RDP78B04560A0055000 100 39-26 8/66-13 14 JUNE 1968

25X1A

WJ406103 UTM COORDINATES

205340N 1052330E GEOGRAPHIC COORDINATES

NAME:

XOM LAM PETROLEUM PRODUCTS STORAGE

LOCATION: ON THE SOUTH SIDE OF ROUTE 6, 2.2 NM EAST OF THE BLACK RIVER,

AND 1.1 NM SW OF XOM LAM. DESCRIPTION: STORAGE ARE STORAGE AREA UNDER CONSTRUCTION CONTAINS 23 BUNKERED TANKS

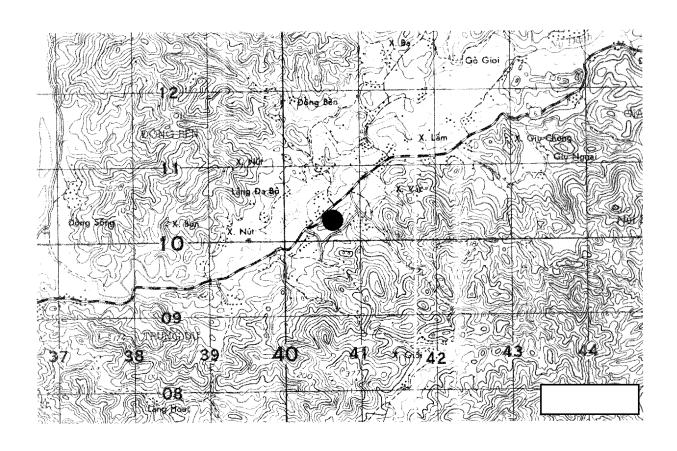
AND 12 EMPTY EXCAVATIONS AROUND LOOP ROADS.

ESTIMATED CAPACITY: TANK 276 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6050-1, 1ST ED, 1965 (U)

AMS SERIES JOG(G) 1501, SHEET NF 48-15, 1ST ED, JUN 65 (U)

PHOTO REFERENCE: 25X1D



25X1C

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Approved For Release 2003/08/04 FCDE-NDPX8B04560A00550001093966/R-218/66-13

(INFORMATION ON THIS PAGE IS CONFIDENTIAL)

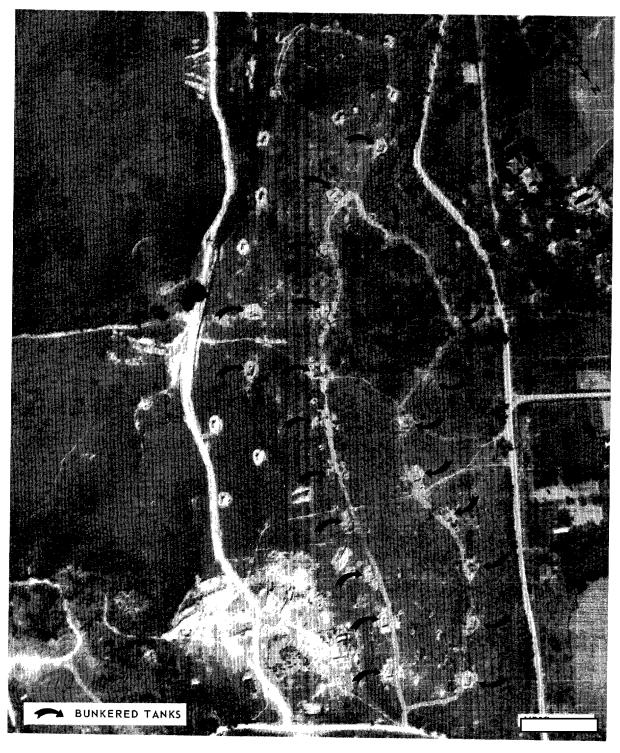
XOM LAM PETROLEUM PRODUCTS STORAGE

WJ406103

205340N 1052330E

UTM COORDINATES

GEOGRAPHIC COORDINATES



25X1

25X1A

WJ927326 UTM COORDINATES

210542N 1055332E GEOGRAPHIC COORDINATES off A

NAME: MAI HIEN PETROLEUM PRODUCTS STORAGE

0.5 NM NNE OF MAI HIEN AND 5 NM NNE OF HA NOI. LOCATION:

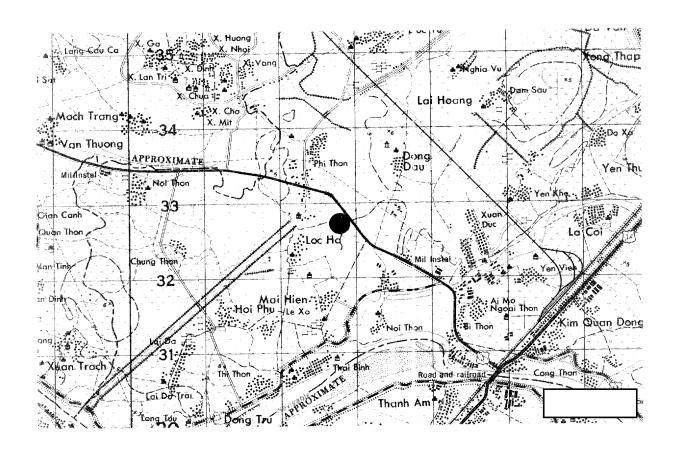
DESCRIPTION: STORAGE AREA CONTAINS A TOTAL OF 19 TANKS IN 6 BUNKERS, 3 BUNKERS WITH 4 TANKS EACH, 2 BUNKERS WITH 2 TANKS EACH, AND 1 BUNKER WITH 3 TANKS.

TANK 228 MT ESTIMATED CAPACITY:

AMS SERIES L7014, SHEET 6151 II, 1ST ED, 1965 (U) MAP REFERENCES:

AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

PHOTO REFERENCE: 25X1D



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14 JUNE 1968

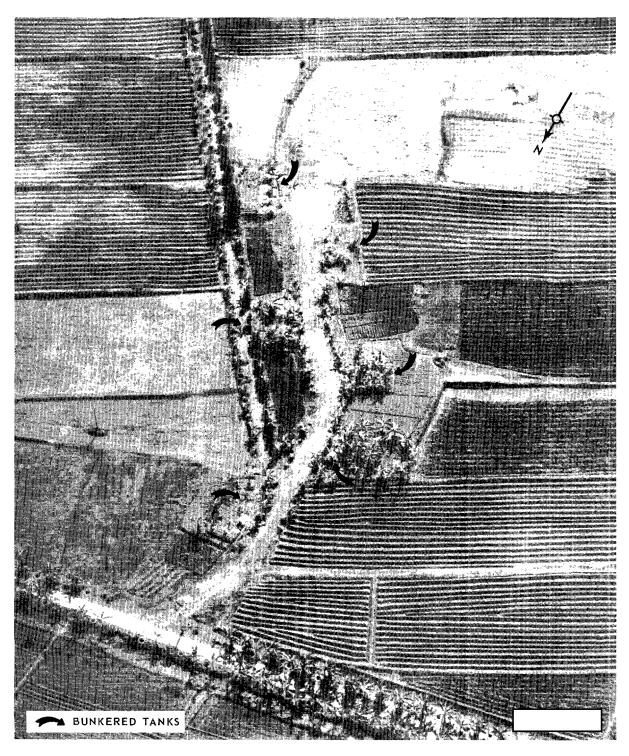
MAI HIEN PETROLEUM PRODUCTS STORAGE

WJ927326

210542N 1055332E

UTM COORDINATES

GEOGRAPHIC COORDINATES



25X1

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WJ882153

205615N 1055050E

BE NUMBER

UTM COORDINATES

GEOGRAPHIC COORDINATES

NAME: QUYNH DO PETROLEUM PRODUCTS STORAGE (AREA 2)

LOCATION: 0.5 NM EAST OF QUYNH DO AND IMMEDIATELY WEST OF ROUTE 1A.

DESCRIPTION: AREA UNDER CONSTRUCTION CONTAINS 5 LARGE POL TANKS ABOVE

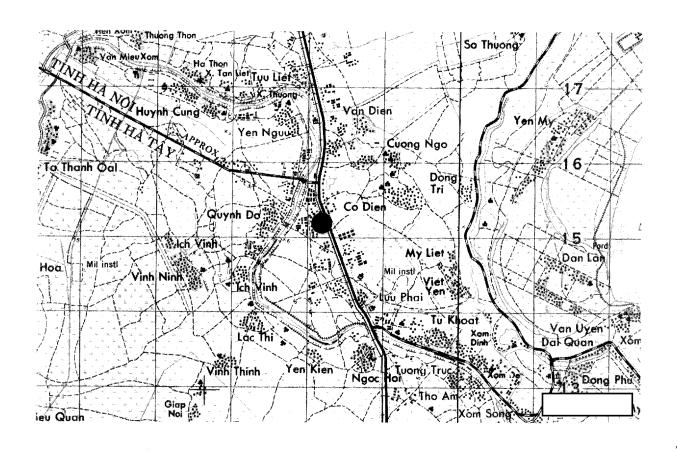
GROUND ADJACENT TO 2 EMPTY EXCAVATIONS.

ESTIMATED CAPACITY: TANK 125 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6150-I, 1ST ED, 1965 (U)

AMS SERIES JOG(G) 1501, SHEET NF 48-15, 1ST ED, JUN 65 (U)

PHOTO REFERENCE: 25X1D



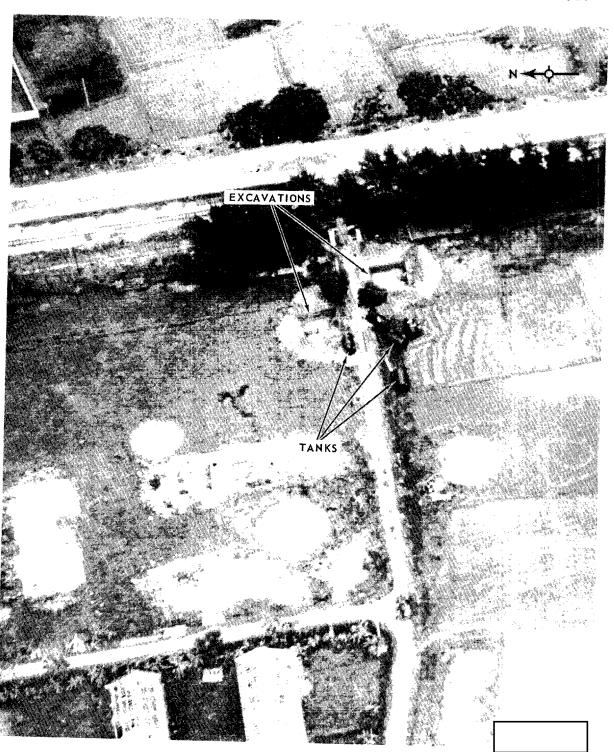
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App25XetiGor Release 2003/08/14: CIA-RDP78B04560A005500010039-6 14 JUNE 1968

QUYNH DO PETROLEUM PRODUCTS STORAGE (AREA 2)

WJ882153
UTM COORDINATES

205615N 1055050E
GEOGRAPHIC COORDINATES



25X1



TABLE OF CONTENTS CATEGORY C DRUM STORAGE AREAS

Мар Кеу	Installation Name	Effective Date
1 2 3 4 5 6 7 8	Ky Tran POL Storage Area Ky Anh POL Drum Storage Hon Gai POL Drum Storage Thanh Hoa Petroleum Products Storage North Do Son POL Drum Storage Tri Binh POL Drum Storage Area Dien Xa POL Storage Cuu Vien POL Storage Area	C1, 2 (Original) C3, 4 (Original) (C) C5, 6 (Original) (C) C7, 8 (May 67) (C) C9, 10 (Original) (C) C11, 12 (Nov 66) (C) C13, 14 (Nov 66) (C) C15, 16 (Nov 66)

Note: (Original) indicates the effective page is in the original undated publication; (C) denotes pages classified CONFIDENTIAL; all other pages are classified CONFIDENTIAL

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25X1C CONFIDENTIAL Approved For Release 2003/08/04 : CIA-RDP78B04560A0055000 10039-6

25X1C CONFIDENTIAL Approved For Release 2013/08/04 : CIA-RDP78B04580A005500010039-6

0617-BE NUMBER WF705767
UTM COORDINATES

1847N 10540E
GEOGRAPHIC COORDINATES

NAME: KY TRAN POL STORAGE APEA

LOCATION: 0.2 NM SOUTH OF KY TRAN, 6.9 NM NORTH OF VINH, AND 1.2 NM EAST OF ROUTE 1A AND THE THANH HOA/VINH RAIL LINE

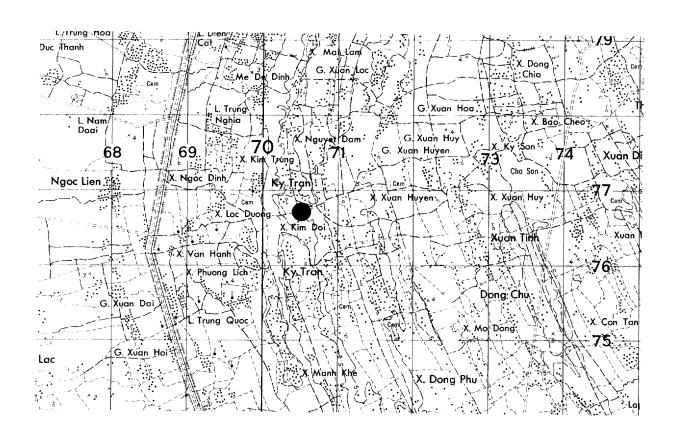
DESCRIPTION: STORAGE AREA CONSISTS OF AT LEAST 24 PARALLEL TRENCHES IN 3 LIGHTLY WOODED AREAS ALONG BOTH SIDES OF A SECONDAPY POAD JUST SOUTH OF KY TRAN. APPROXIMATELY 1,000 POL DRUMS ARE STORED IN THESE TPENCHES. THE PART OF THE AREA SHOWN IN INSET IS AT UTM WF708768.

ESTIMATED CAPACITY: DRUM 200 MT

MAP REFERENCES: AMS SERIES L701, SHEET 6167 III, 1ST ED, DEC 60 (U)

AMS SERIES JOG(G), SHEET NE 48-7, 1ST ED, DEC 65 (U)

PHOTO REFERENCE: 25X1D



RDP78B04560AQ05500010039n6 1968

TABLE OF CONTENTS CATEGORY D **MISCELLANEOUS**

Installation Name	Effective Date
	D1, 2 (Original)
Thuy Phuong POL Storage Tanks	D3, 4 (Original)
Ha Noi Probable POL Tank Fabrication Area 1	• = -
Ha Noi Probable POL Tank Fabrication Area 2	D5, 6 (Original)
Ninh Binh (POL Tanks in Sampan)	D7, 8 (Original)(C)
Thanh Thuy POL Tanks	D9, 10 (Original) (C)
Lang Khe POL Storage Area Under Construction	D11, 12 (Original) (C)
Nho Lam POL Drum Transshipment Area	D13, 14 (Original) (C)
Phuc Yen POL Truck Dispersal Area	D15, 16 (Original)
Sac Le POL Tanks	D17, 18 (Original) (C)
Co Trung POL Storage Site	D19, 20 (Original)
POL Barge	D21, 22 (Original) (C)
Ha Dong POL Trucks	D23, 24 (Original)
POL Tanks (Van Dien Army Supply Depot)	D25, 26 (Sep 66)
Soviet Tanker with Motorized POL Barges	D27, 28 (Sep 66) (C)
POL Storage at Phu Tho Chemical Fertilizer Plant Lam Thao	D29, 30 (Sep 66) (C)
Ben Thuy Thermal Powerplant (POL Storage Area)	D31, 32 (Nov 66) (C)
POL Trucks on Polish Ship (Hai Phong Area)	D33, 34 (Nov 66) (C)
POL Tanks in Ha Noi	D35, 36 (Nov 66)
Uong Bi Powerplant (Petroleum Products Storage)	D37, 38 (Nov 66) (C)
Cong My Transshipment Facility and POL Barges	D39, 40 (Nov 66) (C)
Thai Nguyen Thermal Powerplant (Petroleum Storage)	D41, 42 (Nov 66) (C)
Thon Nieu Tank Fabrication Area (Thai Nguyen Complex)	D43, 44 (Nov 66) (C)
POL Tanks Lang Can	D45, 46 (Nov 66) (C)
Ha Noi POL Tanks	D47, 48 (Nov 66)
POL Tanks at Hai Phong Thermal Powerplant	D49, 50 (Nov 66)
POL Storage Tanks Hai Phong	D51, 52 (Nov 66) (C)
POL Storage Tanks Xom Dong	D53, 54 (Dec 66)
Giap Nhat POL Transshipment Area	D55, 56 (Mar 67) (C)
Hai Phong Tank Fabrication Shop East	D57, 58 (May 67)
Ha Dong Tank Fabrication Area	D59, 60 (Aug 67)(C)
Tanker-POL Barge Offloading	D61, 62 (Nov 67)
Camouflaged Railroad Tank Cars	D63, 64 (Jun 68) (C)
POL Storage Tanks on Rail Cars	D65, 66 (Jun 68) (C)
Co Dien POL Tanks	D67, 68 (Jun 68)
Ha Noi POL Tank Storage	D69, 70 (Jun 68)

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R-218/66

0616-BE NUMBER

WU809323 UTM COORDINATES 2105N 10546E
GEOGRAPHIC COORDINATES

NAME: THUY PHUONG POL STORAGE TANKS

LOCATION: NE SECTION OF THUY PHUONG AND 5.3 NM NW OF HA NOI

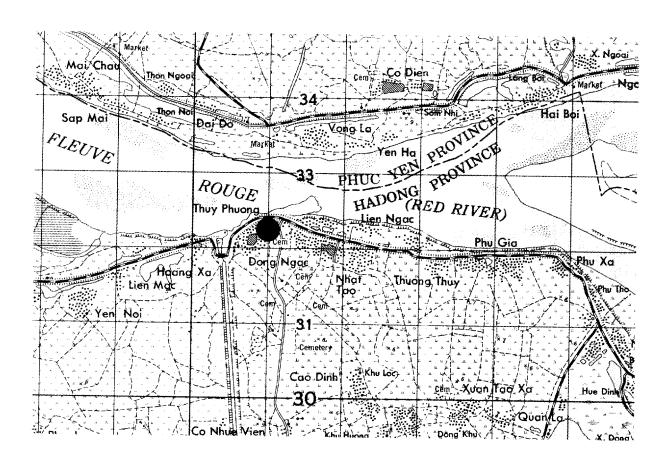
DESCRIPTION: SITE CONTAINS A TOTAL OF 65 (55 STANDARD AND 10 LARGE) TANKS IN RANDOM STORAGE. THIRTY—SIX UNASSEMBLED TANK SECTIONS ARE ALSO OBSERVED. NO PERMANENT POL STORAGE FACILITY IS APPARENT AT THIS SITE.

ESTIMATED CAPACITY: NOT APPLICABLE

MAP REFERENCES: AMS SERIES L701, SHEET 6174 II, 3D ED, APR 63 (U)

AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

PHOTO REFERENCE: 25X1D



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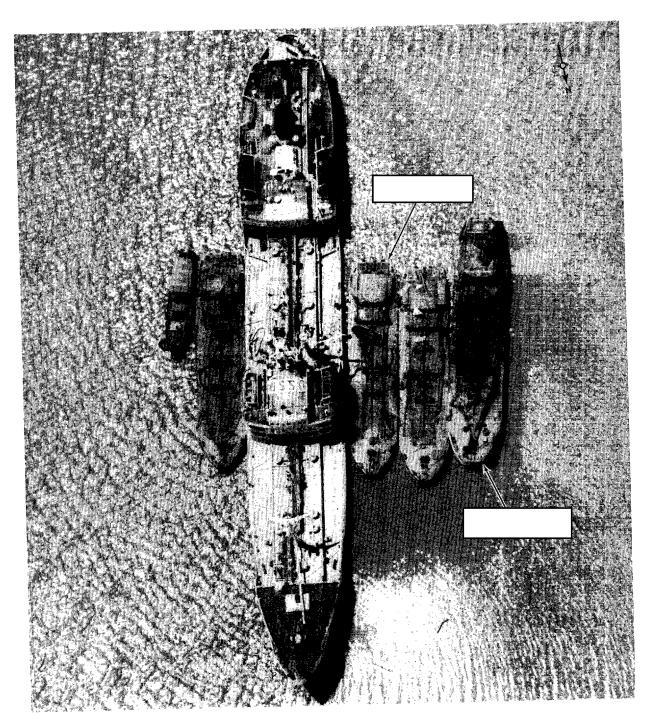
25X1

TANKER - POL BARGE OFFLOADING

25X1C

UTM COORDINATES

205118N 1064600E GEOGRAPHIC COORDINATES



25X1

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Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010039-6

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25XApproved For Release 2003/08/03F (C)4-RDP78B04560A005500010039-6 NPIC/R-218/66-13 14 JUNE 1968

XH016365

201335N 1055822E UTM COORDINATES GEOGRAPHIC COORDINATES

NAME: CAMOUFLAGED RAILROAD TANK CARS

BE NUMBER

LOCATION: ON THE HA NOI-VINH RAIL LINE, 1.5 NM SOUTH OF NINH BINH.

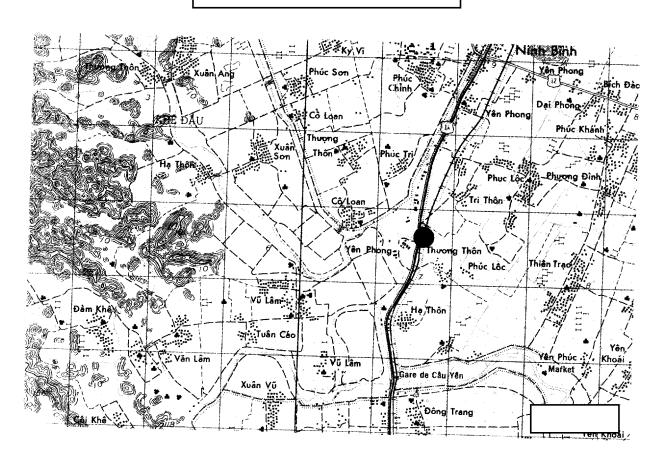
DESCRIPTION: A PORTION OF THE NORTH VIETNAMESE POL IMPORTS ARE DISTRIBUTED IN RAILROAD TANK CARS CAMOUFLAGED TO APPEAR TO BE BOXCARS, PROBABLY TO LESSEN AIRSTRIKE DANGER. FOUR SUCH CARS ARE SHOWN IN A SUPPLY TRAIN. NOTE CUPOLA ON THE TOP OF EACH CAR.

ESTIMATED CAPACITY: NOT APPLICABLE

MAP REFERENCES: AMS SERIES L7014, SHEET 6149-II, 1ST ED, 1965 (U)

AMS SERIES JOG(G) 1501, SHEET NF 48-15, 1ST ED, JUN 65 (U)

PHOTO REFERENCE: 25X1D



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D63

Approved For Release 2003/00/04/FGIA-RDP78B04560A005500010039-6

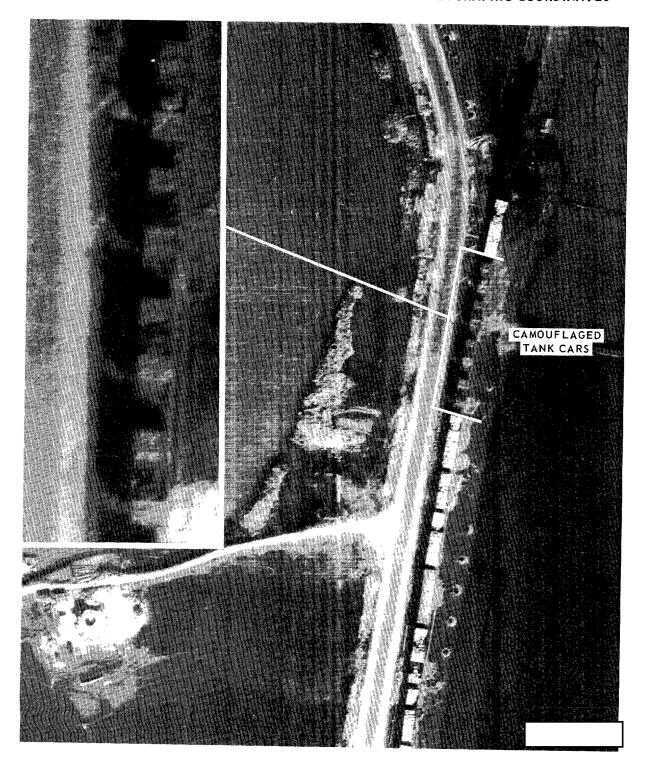
Approved For Release 2003/08/04/DEN-FibH78B04560A0055000 10059/26218/66-13

CAMOUFLAGED RAILROAD TANK CARS

XH016365
UTM COORDINATES

201335N 1055822E

GEOGRAPHIC COORDINATES



Approved For Release 2005/08/704) FGIA HAD P78B04560A005500010039-218/66-13 14 JUNE 1968

195003N 1054728E WG828931 GEOGRAPHIC COORDINATES UTM COORDINATES **BE NUMBER**

POL STORAGE TANKS ON RAIL CARS NAME:

LOCATION: 1.8 NM NNE OF THANH HOA, ADJACENT TO THANH HOA THERMAL

POWERPLANT.

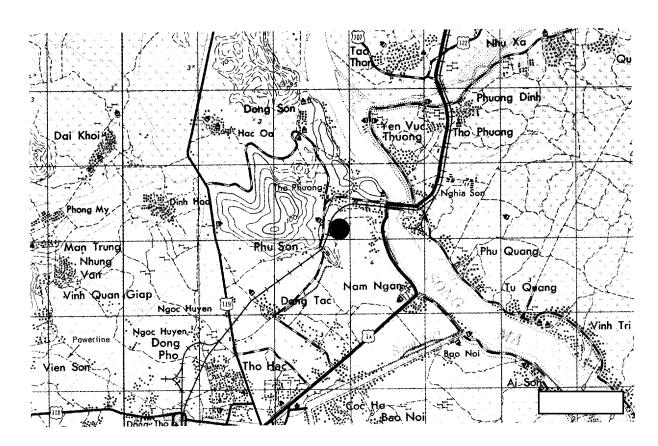
DESCRIPTION: TEN POL STORAGE TANKS ARE OBSERVED ON STATIONARY RAIL FLATCARS. THESE TANKS COULD BE USED FOR TRANSPORTING POL, BUT ARE PROBABLY BEING TRANSPORTED SOUTH FOR USE IN UNDERGROUND POL STORAGE SITES. EACH TANK HAS AN ESTIMATED CAPACITY OF 32 MT.

ESTIMATED CAPACITY: NOT APPLICABLE

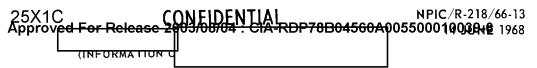
AMS SERIES L7014, SHEET 6148-I, 1ST ED, 1965 (U) MAP REFERENCES:

AMS SERIES JOG(G) 1501, SHEET NE 48-3, 1ST ED, JUN 65 (U)

PHOTO REFERENCE: 25X1D



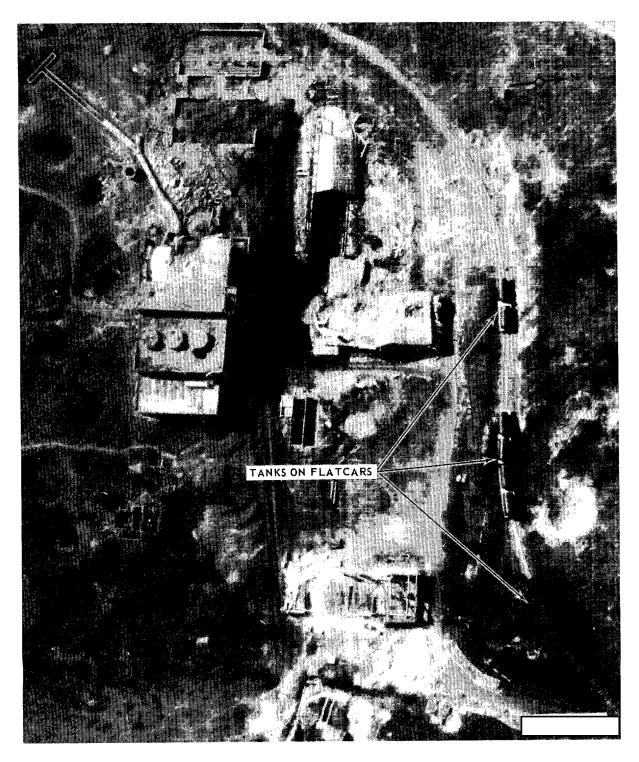
25X1



POL STORAGE TANKS ON RAIL CARS

WG828931
UTM COORDINATES

195003N 1054728E
GEOGRAPHIC COORDINATES



25X1

25X1C
Approved For Release 2603/05/04E No. 100 Pt 1

Approved Fartelease 2003/08/04 F. DENT ABO4560A005500010039-6/R-218/66-13

WJ885148 205600N 1055103E
BE NUMBER UTM COORDINATES GEOGRAPHIC COORDINATES

NAME: CO DIEN POL TANKS

LOCATION: 0.5 NM SW OF CO DIEN, IMMEDIATELY EAST OF ROUTE 1A.

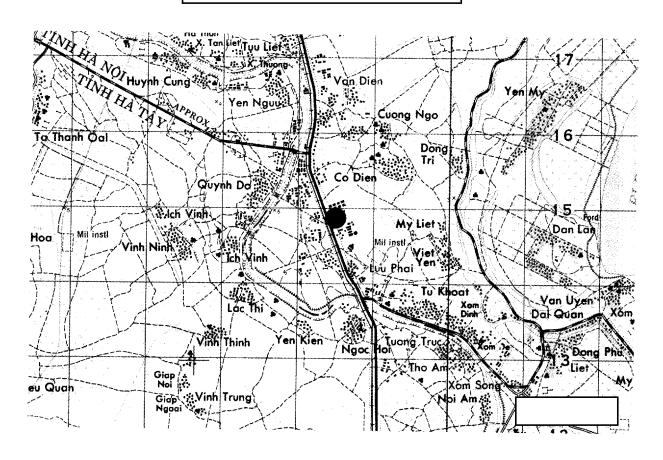
DESCRIPTION: TWENTY-FIVE SMALL STORAGE TANKS ARE OBSERVED SCATTERED THROUGH A DESTROYED VEHICLE MAINTENANCE/BARRACKS AREA.

ESTIMATED CAPACITY: NOT APPLICABLE

MAP REFERENCES: AMS SERIES L7014, SHEET 6150-I, 1ST ED, 1965 (U)

AMS SERIES JOG(G) 1501, SHEET NF 48-15, 1ST ED, JUN 65 (U)

PHOTO REFERENCE: 25X1D



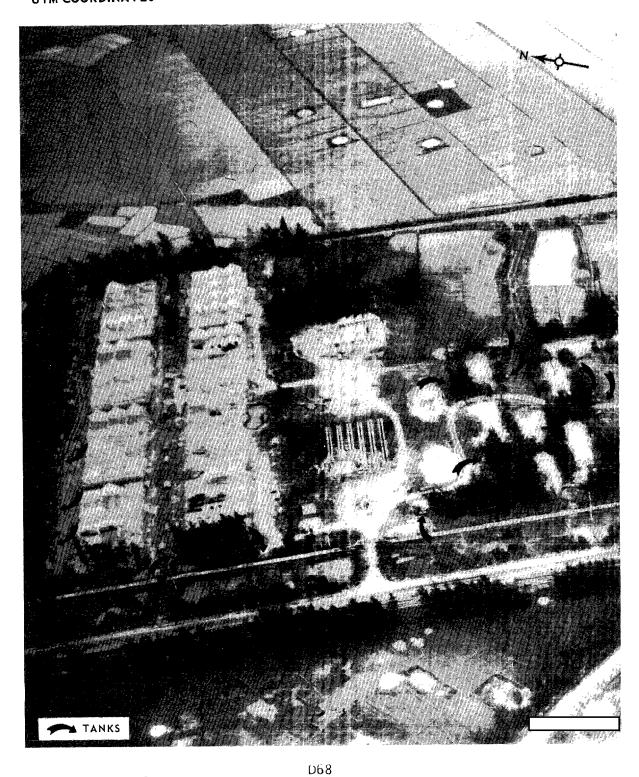
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CO DIEN POL TANKS

WJ885148 UTM COORDINATES

205600N 1055103E GEOGRAPHIC COORDINATES



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Approved For Release 20000000 PCIA RDP78B04560A005500010039-6

Approved Fpc Release 2003/03/04: PIA RDPV8B04560A005500010039-68-218/66-13

WJ895254

UTM COORDINATES

210140N 1055140E GEOGRAPHIC COORDINATES

NAME:

BE NUMBER

HA NOI POL TANK STORAGE

LOCATION: EAST CENTRAL SECTION OF HA NOI.

DESCRIPTION: AREA CONTAINS 57 STANDARD POL STORAGE TANKS AND 7 SMALL POL

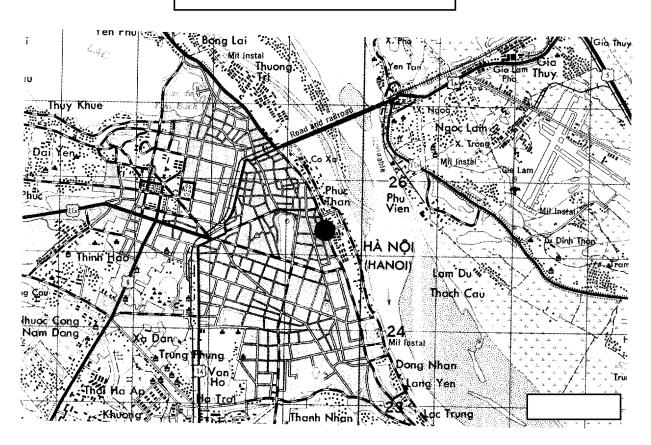
STORAGE TANKS ALONG STREET.

ESTIMATED CAPACITY: NOT APPLICABLE

MAP REFERENCES: AMS SERIES L7014, SHEET

AMS SERIES JOG(G) 1501, SHEET

PHOTO REFERENCE: 25X1D



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			14 JUNE 1900

HA NOI POL TANK STORAGE

WJ895254

210140N 1055140E

UTM COORDINATES

GEOGRAPHIC COORDINATES



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INTRODUCTION

Annex I, prepared by the DIA Production Center, is divided into Sections XA and XB, corresponding to Categories A and B. These sections contain detailed target analyses of the POL storage and handling facilities. Included in the descriptions is information on the significance and capacities of the facilities, target and defense environments, probable impact upon North Vietnam if destroyed, length of time required for restoration, and results of air strikes.

25X1C X-i

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25X1A

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<u> </u>	

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Approved For Fordage 2003/08/04: CIA-RDP78B04560A005500010039-6-13

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25X1C

XB-IV

Approved For Release 2003/08/04 : **EECREP** 78B04560A005500010039-6 14 JUNE 1968

HA NOI PETROLEUM PRODUCTS STURBUR LINIOR FROM 12

25X1

25X1

-	HA NOI PETROLEUM PRODUCTS STURAGE UNDERGROUND THANH LIET (AREA 1)	
	WJ846182 25X1A 205750N 1054850E GEOGRAPHIC COORDINATES	
	PRE-STRIKE TARGET DESCRIPTION	
25X1A	THIS ROAD-SERVED AREA IS 1 OF 2 AREAS COLLOCATED AS A SINGLE TARGET COM- PLEX	
	THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.	
	SAM DEFENSES HAVE BEEN LOCATED WITHIN SA-2 MISSILE RANGE (17.5 NM) AND AAA SITES HAVE BEEN IDENTIFIED WITHIN 3 NM OF THIS TARGET.	
,	RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.	5

25X1C

PREPARED BY DEFENSE INTELLIGENCE AGENCY

NPIC/R-218/66-13 25276 For Release 2003/08/67 Edin RDP78B04560A005500014001915 1968 25X1 HA NOI PETROLEUM PRODUCSTS STORAGE UNDERGROUND THANH LIET (AREA 2) 25X1A 205820N 1054840E GEOGRAPHIC COORDINATES PRE-STRIKE TARGET DESCRIPTION THIS ROAD-SERVED STORAGE AREA IS 1 OF 2 AREAS COLLOCATED AS A SINGLE IT LIES ABOUT 0.7 NM NW OF THANH LIET TARGET COMPLEX 25X1 REVEALED THE AND 3.6 NM SSW OF HA NOI. PHOTOGRAPHY 25X1 AREA TO CONSIST OF 2 BURIED POL TANKS, 8 ABOVEGROUND TANKS, AND 24 EXCAVATIONS FOR TANKS. PHOTOGRAPHY ______ REVEALS THAT THE 25X1 SITE CONTAINS 104 SMALL STORAGE TANKS WITH AN ESTIMATED CAPACITY OF 728 MT. THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMTPION. SAM DEFENSES HAVE BEEN LOCATED WITHIN SA-2 MISSILE RANGE (17.5 NM) AND AAA SITES HAVE BEEN IDENTIFIED WITHIN 3 NM OF THIS TARGET. RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS

COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE

INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY X-B27

Approved For F	Release 2003/08/0	4 SEIGREI P78B04560A0055000	10039c6/R-218/66-13
			14 JUNE 1960
	HUAN CHUNG PET	ROLEUM PRODUCTS STORAGE	25X1C

XK237134	25X1A	
UTM COORDINATES		214920N 1061150E
PRE-STRIKE TARGET DESCRI	PTION	GEOGRAPHIC COORDINATES
	11011	

THIS STORAGE SITE LIES 0.7 NM NNE OF HOAN CHUNG. IT CONTAINS 74 PUG TANKS

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC

NO SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET NOR HAVE AAA DEFENSES BEEN LOCATED WITHIN 3 NM.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE

> PREPARED BY DEFENSE INTELLIGENCE AGENCY X-B243

Approved	For Re	elease 200	3/0 8/54RET A	-RDP78B	04560A005	5008 ¹ fq	/R-218/6 039-6/6	6-13 1968
						•		. 700
1AHT	AOH HI	PETROLEŪ	M PRODUCTS	STORAGE	SOUTH NO.	1		

2	25X1A
WG806907 UTM COORDINATES	194843N 1054614E GEOGRAPHIC COORDINATES
PRE-STRIKE TARGET DESCRIPTION	o N

THIS STORAGE SITE IS LOCATED IN THE NW SECTION OF THANH HOA. IT CONTAINS 17 SEPARATELY BUNKERED TANKS WITH AN ESTIMATED CAPACITY OF 204 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

SAM DEFENSES HAVE BEEN LOCATED WITHIN SA-2 MISSILE RANGE (17.5 NM) AND AAA SITES HAVE BEEN IDENTIFIED WITHIN 3 NM OF THE TARGET.

RESTORATION OF THIS TARGET TO FULL PRE-STRIKE CAPABILITY WOULD REQUIRE 1 - 2 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY

X-B245

Approved For Raixas 2003/08/04 SEGRETP78B04560A005500010039 68218/66-13
14 JUNE 1968

WF800342
UTM COORDINATES

182350N 1054530E
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS AREA LIES 0.4 NM SOUTH OF HA XUAN MAI AND CONTAINS 9 SMALL BUNKERED TANKS AND 141 POL DRUMS IN SCATTERED TRENCHES. IT HAS AN ESTIMATED CAPACITY OF $94\ MT$.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

SAM DEFENSES HAVE BEEN LOCATED WITHIN SA-2 MISSILE RANGE (17.5 NM) AND AAA SITES HAVE BEEN IDENTIFIED WITHIN 3 NM OF THIS TARGET.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE 1 - 2 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

25X1C PREPARED BY DEFENSE INTELLIGENCE AGENCY X-B247

Approved For <u>Release 2003/08/</u> 04 \$Εር⁄R ΕΦΡ78Β04560Α005500010 0 39ේ _{/R-218/6})100396 /R-218/66-13
			14 June 1968

W. W. O.C. 1. 0. 7	25X1A	
UTM COORDINATES		205340N 1052330E GEOGRAPHIC COORDINATES
PRE-STRIKE TARGET DECC]

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE, NOW UNDER CONSTRUCTION, LIES SOUTH OF ROUTE 6 AND 1.1 NM SW OF XOM LAM. IT CONTAINS 23 BUNKERED TANKS WITH AN ESTIMATED CAPACITY OF 276 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

NO SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM); HOWEVER, AAA DEFENSES HAVE BEEN IDENTIFIED WITHIN 3 NM OF THE TARGET.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY X-B249

Approved	l For Release 2003	8/08 % ECREA -RDP78B04560A00550	BIC/R-218/66-13 B10039-6 1968 14 JUNE 1968
	MAI HIEN PET	FROLEUM PRODUCTS STORAGE	_

WJ927326	25X1A	210542N	1055332E
UTM COORDINATES		GEOGRAPHIC	COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE IS LOCATED 0.5 NM NNE OF MAI HIEN AND 5 NM NNE OF HA NOI. IT CONTAINS 19 BUNKERED TANKS WITH AN ESTIMATED CAPACITY OF 228 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

SAM DEFENSES HAVE BEEN LOCATED WITHIN SA-2 MISSILE RANGE (17.5 NM) AND AAA SITES HAVE BEEN IDENTIFIED WITHIN 3 NM OF THIS TARGET.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE 1 - 2 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY X-B251

25X1C Approved For Release 2003/08/04E-RDP78B04560A005500010039-6



WJ882153 UTM COORDINATES

205615N 1055050E
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE, NOW UNDER CONSTRUCTION, LIES 0.5 NM EAST OF QUYNH DO. IT PRESENTLY CONSISTS OF 5 LARGE ABOVEGROUND STORAGE TANKS ADJACENT TO 2 EMPTY EXCAVATIONS. THE SITE HAS AN ESTIMATED CAPACITY OF 125 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

SAM DEFENSES HAVE BEEN LOCATED WITHIN SA-2 MISSILE RANGE (17.5 NM) AND AAA SITES HAVE BEEN IDENTIFIED WITHIN 3 NM OF THIS TARGET.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE 1 - 2 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY X-B253

25X1C

INTRODUCTION

In accordance with standard practices of the petroleum industry, capacities in all categories of this annex are expressed in terms of metric tons at the rate of one metric ton for each cubic meter of volume. A cubic meter of water (about 265 US gallons) weighs one metric ton. A cubic meter of petroleum generally weighs less than one metric ton, the exact weight depending upon the specific gravity of the particular type of petroleum. A specific gravity of 0.84 may be used to estimate the weight of a cubic meter of average petroleum; thus, one cubic meter of average petroleum would weigh 0.84 metric tons. Capacities shown in this annex are gross. Because of ''deadwood'' inside tanks, (e.g., the space occupied by pipes, manholes, and internal structural supports, and space left to preclude spillage at or near the tops of tanks), the actual and safe capacity may be about 95 percent of gross capacity.

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ANNEX II

25X1A		Cap	acity
RE No	Installation Name	MT Water	MT POL
	Viet Tri Petroleum Products Storage	25	21
	Phuc Yen Airfield POL Storage Area	4,200	3 , 530
	Hia Gia Petroleum Products Storage SSW UG	9,188	7,718
	Ha Noi Petroleum Products Storage Thanh Am	600	504
	Nguyen Khe Petroleum Products Storage	5,925	4, 977
	Bac Giang Petroleum Products Storage	1,900	1 , 596
	Nam Dinh Petroleum Products Storage	13,120	11,021
	Hai Phong Petroleum Products Storage	48,348	40,612
	Duong Nham Petroleum Products Storage		
	Do Son Petroleum Products Storage		
	Phu Van POL Storage		
	Vinh Petroleum Products Storage	1,600	1,344
	Phu Qui Petroleum Products Storage	9,000	7,560
	Ha Noi/Gia Lam Airfield POL Storage Area	850	714
	La Danh Petroleum Products Storage PUG	2,359	1,982
	Van Lung Petroleum Products Storage UG	352	295
	Van Lung Petroleum Products Storage West UG	84	71
	Hoang Mai POL Storage Area	300	252
	Ha Noi Petroleum Products Thi Cam	468	393
	Bai Thuong Petroleum Products Storage UG Southeast	555	4 66
	Son La Petroleum Products Storage	384	323
	Thuong Thon Petroleum Products Storage UG		
	Ngoc Son Petroleum Products Storage PUG	348	292
	Thai Lai Petroleum Products Storage	120	1 C1
	Yen Hau Petroleum Products Storage PUG	192	161
	Thanh Lang Petroleum Products Storage PUG	1,044	877
	Ha Noi Petroleum Products Storage UG Thanh Liet (Area 1)	224	188
	Ha Noi Petroleum Products Storage UG Thanh Liet (Area 2)	728	612
	Bang So Petroleum Products Storage PUG	234	197
	Son Chau Petroleum Products Storage PUG		
	Can Thon Petroleum Products Storage	925	777
	Ha Noi Petroleum Products Storage Duc Noi (Area 1)	1,108	931
	Ha Noi Petroleum Products Storage Duc Noi (Area 2)	849	713
	Ha Noi Petroleum Products Storage Duc Noi (Area 3)	300	252
	Ha Noi Petroleum Products Storage Duc Noi (Area 4)	132	111

ANNEX II (Continued)

25X1A		Cap	acity
*****	Installation Name	MT Water	MT POL
	Cu Van Petroleum Products Storage	850	714
	Cu Van Petroleum Products Storage East UG	1,300	1,092
	Dao Quan Petroleum Products Storage East	84	71
	Dao Quan Petroleum Products Storage West	162	136
	Nam Dinh Petroleum Products Storage PUG	300	252
	Thai Nguyen Petroleum Products Storage PUG South	1,320	1,109
	Phuc Yen Airfield POL Storage Area 1	300	252
	Phuc Yen Airfield POL Storage Area 2	750	630
	Xom Duong Quan Petroleum Products Storage UG East	72	60
	Xom Duong Quan Petroleum Products Storage UG	43	36
	Nui Tap Tinh POL Storage Area	26. 6	22.3
	Sac Le POL Storage Area	168	141
	Phu Dong POL Storage Area	420	352
	Thuan Le POL Storage Area	273	229
	Phuc Loc Petroleum Products Storage	156	131
	Thanh Hoa POL Storage Area	118	99
	Ba Don Petroleum Products Storage	84	7.1
	Phuc Loi Petroleum Products Storage Navy	300	252
	Tho Trang Petroleum Products Storage	250	210
	Ninh Giang Petroleum Products Storage	342	272
	Dong Chau Petroleum Products Storage	612	514
	Kep Ha Petroleum Products Storage	96	81
	Tien Hoi Petroleum Products Storage	468	393
	Dong Mai Petroleum Products Storage	276	232
	Xom Lang POL Storage	312	262
	Van Hoa POL Storage	144	121
	Phu Lo Petroleum Products Storage NNE UG		
	Juane Island POL Storage	48	40
	Co Nhue Vien Petroleum Products Storage	744	625
	Quang Suoi Petroleum Products Storage		
	Trung Phu Petroleum Products Storage	184	155
	Gia Hoa Petroleum Products Storage PUG	132	111
	Bai Chay Petroleum Products Storage	53	45
	Vinh Petroleum Products Storage Yen Thinh	132	111
	Ba Don Petroleum Products Storage PUG West	72	61
	Bac Ninh Petroleum Products Storage	204	169
	Vinh Petroleum Products Storage PUG Xuan Yen	70	59

25X1C Approved For Release 20/03/98/08 F.CIA-RDP78B04560A005500040039-6/66-13

14 June 1968

25X1

25X1A

ANNEX II (Continued)

1	Cap	acity
<u>Installation Name</u>	MT Water	MT POL
Tri Binh Petroleum Products Storage	48	40
Xuyen Duong Petroleum Products Storage		
Cau Cong Petroleum Products Storage	384	323
Tung Tu Petroleum Products Storage UG	375	315
Don Son Petroleum Products Storage	744	625
Quy Khe Petroleum Products Storage	1,344	1,129
Tran Xa Petroleum Products Storage	1,250	1,050
Than Hoa Petroleum Products Storage	84	71
Tram Du Petroleum Products Storage	1,050	882
Luc Nong Petroleum Products Storage	720	605
Thai Nguyen Petroleum Products Storage	99	83
Tien Nong Petroleum Products Storage	432	363
Vinh Petroleum Products Storage PUG Ben Thuy	168	141
Chi Linh Petroleum Products Storage	1,728	1,452
Vinh Petroleum Products Storage PUG Yen Dai	72	60
Hoang Pha Petroleum Products Storage	240	202
Kien An POL Storage	288	242
Phu Thi Petroleum Products Storage	360	302
Phu Tri Petroleum Products Storage West	164	138
Vinh Petroleum Products Storage North UG	96	81
Mach Trang Petroleum Products Storage	112	94
Tram Bac Petroleum Products Storage	1,275	1,071
Nam Lo Petroleum Products Storage	1,000	840
Ha Noi Petroleum Products Storage Duc Noi (Area 5)	261	219
Hai Gia Petroleum Products Storage NW	936	786
Phu Xa Petroleum Products Storage	200	168
Hoa Loan Petroleum Products Storage	108	91
Tu Hoang Petroleum Products Storage	175	148
Tay Tuu Petroleum Products Storage East	325	273
Nguyen Khe Petroleum Products Storage	36	30
Cap Dien Petroleum Products Storage	216	181
Vinh Petroleum Products Storage PUG North No 2	375	315
Xom Thap Petroleum Products Storage	180	151
Vinh Petroleum Products Storage PUG North No 3	54	45
Cu Hap Petroleum Products Storage	100	84
Xuan Mai Petroleum Products Storage	750	630
Dong Xuan Petroleum Proucts Storage	504	423
Vinh Petroleum Products Storage SE PUG	147	124

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ANNEX II (Continued)

25X1A			Cap	acity
	BE No.	Installation Name	MT Water	MT POL
г		Kep Petroleum Products Storage	500	420
		Dong Sang Petroleum Products Storage	120	109
		Lap Tri Petroleum Products Storage	975	819
		Long Dai Petroleum Products Storage	225	189
		Luc Nong Petroleum Products Storage	720	605
		Quynh Hoang Petroleum Products Storage	350	294
		Lang Son Petroleum Products Storage SE	300	252
		Xa Son Petroleum Products Storage	800	672
		Cam Lam Thuong Petroleum Products Storage	400	336
		Phu Qui Petroleum Products Storage PUG No 2	35	29
		Khon Phai Dan Petroleum Products Storage	325	273
		Na Pia Petroleum Products Storage NW	200	168
		Dong Dang Petroleum Products Storage No 2	1,450	1,218
		Dong Dang Petroleum Products Storage No 1	264	222
		Na Pia Petroleum Products Storage	1,050	882
		Lang Coc Petroleum Products Storage	375	315
		Binh Phu Petroleum Products Storage North	132	111
		Kieu Yen Thuong Petroleum Products Storage	180) 151
		Hien Luong Petroleum Products Storage	120	101
		Hoan Ha Petroleum Products Storage	1,250	
		Ban Yen Nhan Petroleum Products Storage	447	
		Quynh Do Petroleum Products Storage	394	331
		Tien Huong Petroleum Products Storage	156	
		Bau Me Petroleum Products Storage	250	
		Duong Xa Petroleum Products Storage	542	
		Hoan Chung Petroleum Products Storage	888	
		Thanh Hoa Petroleum Products Storage South No I	204	
		Ha Xuan Mai Petroleum Products Storage	94	
		Xom Lam Petroleum Products Storage	276	
		Mai Hien Petroleum Products Storage	228	
L		Ouvnh Do Petroleum Products Storage (Area 2)	125	5 105

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THE REPORT OF THE POPULATION O	1706 Y=071
PHU LUC PETROLEUM PRODUCTS STORAGE	1714 N 18639 E B717 A B719 171937N 1863718E B199, X-B199
PHO LOC PETROLEUM PRODUCTS STORAGE	171937N 1863/18C 0797 K 0211
LONG DAI PETROLEUM PRODUCTS STORAGE LONG DAI PETROLEUM PRODUCTS STORAGE PUG 2	171937N 1863145E B211, X-B211
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BA DON PETROLLOM PRODUCTS STORAGE	
BA DON PETROLLUM PRODUCTS STORAGE	1747 N 18615 E D9
- LI TILLY COLL TANKS	181504N 1055300E B239, X-B239
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	100380N 1054530E B2471 X-B247
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	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1770 / TTTT 1 031. Y=031
	1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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POL STORAGE TANKS ON RAIL CARS	■ provide the second to the s
I OF STOWAGE STORE	

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14 June 1968

BAI THUONG PETROLEUM PRODUCTS STORAGE UG SE QUANG SUUI PETROLEUM PRODUCTS STORAGE CAMOUFLAGED RAILROAD TANK CARS LANG COC PETROLEUM PRODUCTS STORAGE THUCNG THON PETROLEUM PRODUCTS STORAGE UG XUYEN DUONG PETROLEUM PRODUCTS STORAGE XOM LAM PETROLEUM PRODUCTS STORAGE BANG SO PETROLEUM PRODUCTS STORAGE PUG BINH PHU PETROLEUM PRODUCTS STORAGE MORTH XUAN MAI PETROLEUM PRODUCTS STORAGE QUYNH DO PETROLEUM PRODUCTS STORAGE QUYNH DO PETROLEUM PRODUCTS STORAGE (AREA 2) CO DIEN PUL TANKS HA NOT POL PROD STOR UG THANH LIET (AREA 1) HA LONG POL TRUCKS POL TANKS (VAN DIEN ARMY SUPPLY DEPOT) HA NOT POL PROD STOR UG THANH LIET (AREA 2) HA DONG TANK FABRICATION AREA POL TANKS IN HA NOI CO TRUNG POL STORAGE SITE NAM DINH PETROLEUM PRODUCTS STORAGE NAM DINH PETROLEUM PRODUCTS STORAGE PUG NAM LO PETROLEUM PRODUCTS STORAGE CAU CONG PETROLEUM PRODUCTS STORAGE DUNG CHAU PETROLEUM PRODUCTS STORAGE DO SON PETROLEUM PRODUCTS STORAGE DO SON POL DRUM STORAGE NINH GIANG PETROLEUM PRODUCTS STORAGE KIEN AN PETROLEUM PRODUCTS STORAGE TIEN HOI PETROLEUM PRODUCTS STORAGE CUU VIEN POL STORAGE AREA POL TRUCKS ON POLISH SHIP (HAI PHONG AREA) KILU YEN THUONG PETROLEUM PRODUCTS STORAGE POL STORAGE TANKS HAI PHONG HAI PHONG TANK FABRICATION SHOP EAST TRAM DAC PETROLEUM PRODUCTS STORAGE PHU XA PETROLEUM PRODUCTS STORAGE TANKER - POL BARGE OFFLOADING HAI PHONG PETROLEUM PRODUCTS STORAGE POL TANKS AT HAI PHONG THERMAL POWERPLANT QUYNH HOANG PETROLEUM PROJUCIS STOKAGE CONG MY TRANSSHIPMENT FAC AND POL BARGES HOANG PHA PETROLEUM PRODUCTS STORAGE TIEN WONG PETROLEUM PRODUCTS STORAGE LUC NONG PETROLEUM PRODUCTS STORAGE LUC NUNG PETROLEUM PRODUCTS STORAGE THAI LAI PETRULEUM PRODUCTS STORAGE BAN YEN NHAN PETROLEUM PRODUCTS STURAGE TRAM DU PETROLFUM PRODUCTS STORAGE THANH LANG PETROLEUM PRODUCTS STORAGE PUG

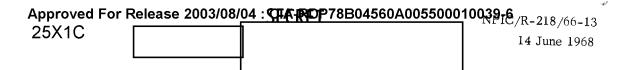
1951 // 1и525 Е В11, х-в11 2047 и 10552 в 8101, х-8101 201335N 1055822E D63 2033201 1054939E B223, X-8223 2047 N 10540 E B15, X-B15 2048 N 10540 E 8119, X-8119 2053401 1052330E B249, X-B249 2853 N 18553 E B29, X-829 205345N 1055920E B225, X-B225 2854 N 10537 E B187, X-B187 _ 205631N 1054956E B235, X**-**B255 2M5615N 1W55W5DE B253, X-B253 245680N 1855183E D67 205750N 1054850E B25, X-B25 2457 N 18549 E D23 2457 N 10550 L D25 205820N 1054840L 827, X-B27 2#5925N 1#548#1E D59 2459 N 1055b 2112 N 10615 E D19 2424 N 10010 L A13, X-A13 2826 N 10613 E 851, X-851 21/32 N 10017 E B161, X-B161 2039 N 10010 E B121, X-8121 2439 N 18613 ⊏ 883, X-883 2042 N 10647 L A19, X-A19 2N43 N 10647 F Ca 2й45 E B⁰1, x-881 N 10631 2447 N 18637 E B149, X-B149 2449 N 10635 £ B¤7, X-887 2449 N 10638 E C15 2849 N 10647 L D33 205012N 1063525E B227, X-B227 2454 10040 E 051 N 2859 N 10041 ₽ D57 2851 N 10635 E B159, X-B159 2051 N 10644 E B167, X-B167 285**11**8N 1004000E D61 2052 N 18639 E A15, 2452 N 18642 E D49 2M5303N 1003600E B203, X-B203 2053 N 10637 E D39 2454 N 10637 € B147, X-B147 2M55 N 14633 E B139, X-B139 2H55 N 18634 E B201, X-B201 2055 Ν 1 μο 34 E B135, X-B135 2055 N 18037 E B19, X-B19 205650N 1000108t 8233, X-8233 2858 N 10017 E B133, X-B133 2058 N 18636 E B23, X-B23

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CAM LAM THUONG PETROLEUM PRODUCTS STORAGE
SOVIEL TANKER WITH MOTORIZED POL BARGES
HON GAI POL DRUM STORAGE
BAT CHAY PETROLEUM PRODUCTS STORAGE
SAC LE POL STORAGE AREA
SAC LE POL TANKS
SON LA PETROLEUM PRODUCTS STORAGE
HA NOT PETROLEUM PRODUCTS THE CAM
HA NOT PROBABLE POL TANK FAGRICATION AREA 1
HA NOT PROBABLE POL TANK FABRICATION AREA 2
HA NOT POL TANKS
HA NOT POL TANK STOKAGE
PHU THI PETROLEUM PRODUCTS STORAGE
DUONG XA PETROLEUM PRODUCTS STORAGE
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TAY TOU PETROLEUM PRODUCTS STORAGE EAST
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HA NOT PETROLEUM PRODUCTS STORAGE THANH AM
 PHU DUNG POL STORAGE AREA
 THUY PHUONG POL STORAGE TANKS
 MAI HIEN PETROLEUM PRODUCTS STORAGE
 MACH TRANG PETROLEUM PRODUCTS STORAGE
 HA NOT PETROLEUM PROD STOR DUC NOT (AREA 4)
 HA NOI PETROLLUM PROD STOR DUC NOI (AREA 1)
 HA NOT PETROLEUM PROD STOR DUC NOT (AREA 2)
 HA NOT PETROLEUM PROD STOR DUC NOT (AREA 3)
 DONG SANG PETROLEUM PRODUCTS STORAGE
 POL STORAGE TANKS XOM DONG
 HA NOT PETROLEUM PROD STOR DUC NOT (ARFA 5)
 NGUYEN KHE PETROLEUM PRODUCTS STORAGE
 NGUYEN KHE PETROLEUM PRODUCTS STORAGE
 PHU TRI PETROLEUM PRODUCTS STORAGE WEST
 PHUC TEN AIRFIELD POL STOKAGE AREA
 HIEN LUONG PETROLEUM PRODUCTS STORAGE
 PHUC YEN AIRFIELD POL STORAGE A2
  PHUC YEN POL TRUCK DISPERSAL AREA
  NINE BINH (POL TANKS IN SAMPAN)
  HOA LOAN PETROLEUM PRODUCTS STORAGE
  TIEN HUONG PETROLEUM PRODUCTS STORAGE
  PHUL YEN AIRFIELD POL STORAGE AREA 1
  HA GIA PETROLEUM PRODUCTS STORAGE SSW UG
  VILT IRI PETROLEUM PRODUCTS STORAGE
  LAP TKI PETROLEUM PRODUCTS STORAGE
  POL STOR PHU THO CHEM FERT PLT LAM THAO
  VAN LUNG PETROLEUM PROD STORAGE WEST UG
  VAN LUNG PETROLEUM PRODUCTS STORAGE UG
  HA GIA PETROLEUM PRODUCTS STORAGE NW
  PHU LO PETROLEUM PRODUCTS STORAGE NNE UG
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THAI NGUYEN PETROLEUM PROD STOR PUG SOUTH TUNG TO PETROLEUM PRODUCTS STORAGE UG THOM MIEU TANK FAB AREA (THAT NGUYEN) THAI AGUYEN PETROLEUM PRODUCTS STORAGE THAT NGUYEN THERMAL POWERPLANT (POL STORAGE) 2136 CU VAN PETROLEUM PRODUCTS STORAGE CU VAN PETROLEUM PRODUCTS STORAGE EAST UG LA DAINH PETROLEUM PRODUCTS STURAGE PUG XA SON PETROLEUM PRODUCTS STORAGE QUY KHE PETROLEUM PRODUCTS STORAGE DUONG NHAM PETROLEUM PRODUCTS STORAGE DON SON PETROLEUM PRODUCTS STURAGE UONG BI POWERPLANT (PETROLEUM PROD STOR) CAP DIEN PETROLEUM PRODUCTS STORAGE TRAN AA PETROLEUM PRODUCTS STORAGE NUT TAP FINH POL STORAGE AREA CHI LINH PETROLEUM PRODUCTS STORAGE DONG MAI PETROLEUM PRODUCTS STORAGE BAC NINH PETROLEUM PRODUCTS STORAGE HOANG MAI POL STORAGE AREA BAC GLANG PETROLEUM PRODUCTS STORAGE TRUNG PHU PETROLEUM PRODUCTS STORAGE CAN THON PETROLEUM PRODUCTS STORAGE KEP HA PETROLEUM PRODUCTS STORAGE KEP PETROLEUM PRODUCTS STORAGE DAG QUAN PETROLEUM PRODUCTS STORAGE WEST DAG QUAN PETROLEUM PRODUCTS STORAGE EAST HOAN HA PETROLEUM PRODUCTS STORAGE LANG SON PETROLEUM PRODUCTS STORAGE SE HOAN CHUNG PETROLEUM PRODUCTS STORAGE POL BARGE NA PIA PETROLEUM PRODUCTS STORAGE NW NA PIA PETROLEUM PRODUCTS STORAGE DONG DANG PETROLEUM PRODUCTS STORAGE NO 2 DONG DANG PETROLEUM PRODUCTS STORAGE NO 1 KHUN PHAI DAN PETROLEUM PRODUCTS STORAGE JAUNE ISLAND POL STORAGE VAN HUA POL STORAGE

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